



PMW150

Lead System Integrator (LSI)
Request For Information (RFI)
Industry Day Aug. 9, 2005



Statement A: Approved for Public Release; Distribution Is Unlimited (16 AUGUST 2005)



Agenda



- Intro/Admin (Sean O'Brien)
- Welcome (Mike Spencer)
- Rules of the Road (Mark Schweer)
- C2 LSI High Level Concept (Sean O'Brien)
- Questions & Answers



Mr. Mike Spencer
PEO (C4I & SPACE)
Program Manager
PMW150 Command and Control



Mr. Mark Schweer

SPAWAR Headquarters

LSI Requirement Contracting
Officer



Mr. Sean O'Brien

PEO (C4I & SPACE)

Assistant Program Manager for
LSI

PMW150 Command & Control



C2 Lead Systems Integrator

Industry Day Brief

Mr. Sean O'Brien
PMW 150 APM for LSI
9 Aug 2005

Program Manager of Warfare for Command and Control



PMW 150

Mission – Vision

MISSION:

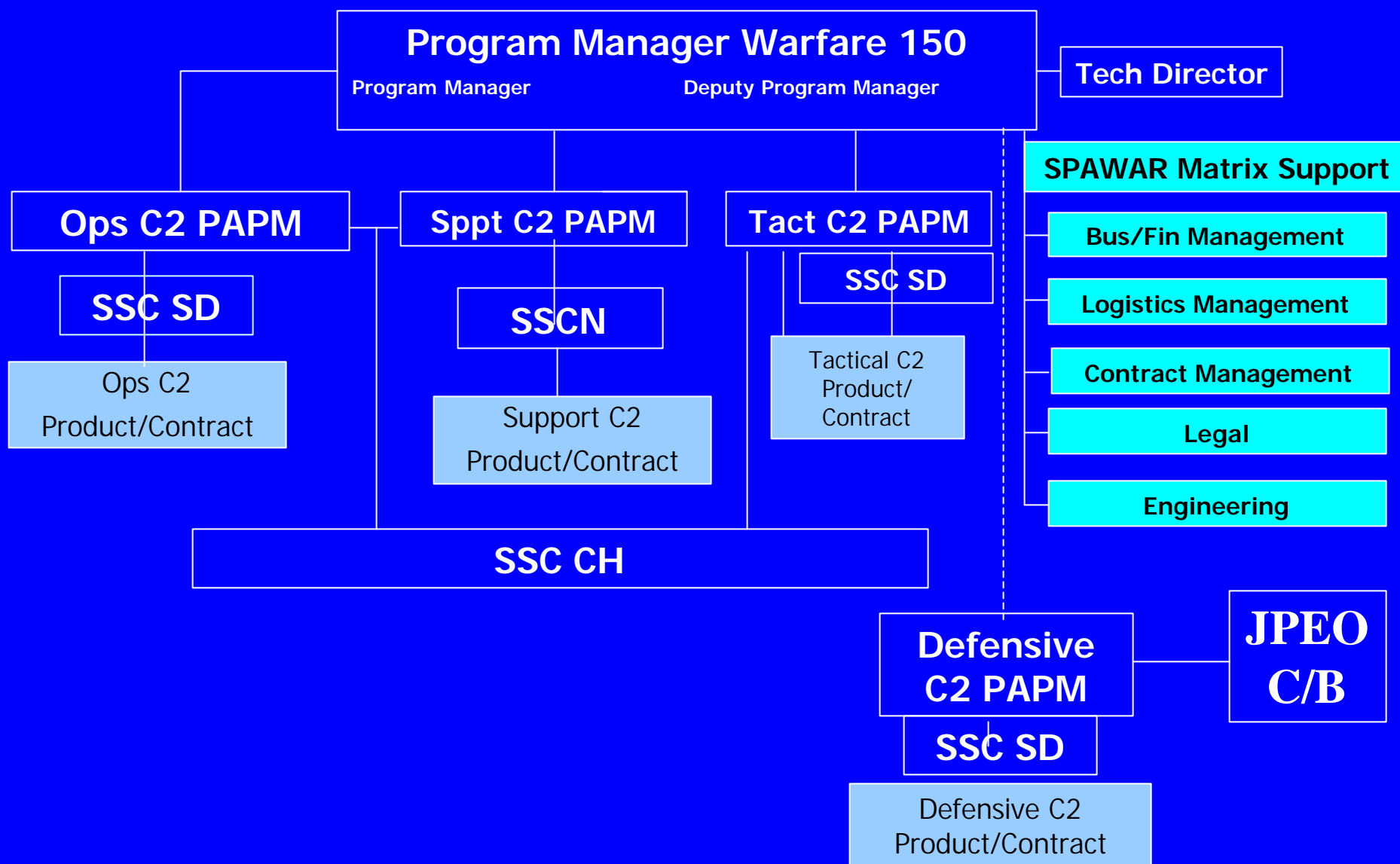
We transform operational needs into effective and affordable Command and Control capabilities for Navy, Marine Corps, Joint and coalition warfighters

VISION:

The pre-eminent authority and provider of choice for Command and Control capability



PMW 150 Organization





PMW 150 Program Office Overview

Program / Project Listing

Name	Short Name	ACAT Desig
Support C2		
Naval Tactical Command Support System	NTCSS	ACAT IAC
Optimized Organizational Maintenance Activity	OOMA	ACAT IAC (part of NTCSS)
Theater Medical Information Program - Maritime	TMIP-M	Special Project
SNAP Automated Medical System	SAMS	AAP
Operational C2		
Global Command and Control System - Maritime	GCCS-M	ACAT IAC
Global Command and Control System - Joint	GCCS-J	ACAT IAM - DISA
Theater Battle Management Core Systems	TBMCS	ACAT IAC - USAF
Joint Command and Control System	JC2	Pre ACAT IAM - TBD
Joint Translator Forwarder	JxF	None - JFCOM
Joint Blue Force Situational Awareness	JBFSA	None - JFCOM
Rapid Attack Information Dissemination Execution Re RAIDER		None - JFCOM



PMW 150 Program Office Overview

Program / Project Listing (Cont)

Name	Short Name	ACAT Desig
Tactical C2		
Command and Control Processor	C2P	ACAT II
MIDS on Ship	MOS	ACAT IAC (part of MIDS)
Common Link Integration Processing	CLIP	ACAT II
JICO Support System	JSS	ACAT III (USAF Lead)
Dynamic Network Management	DNM	Project
Air Defense System Integrator	ADSI	Project
Joint Multi-TADIL School	TDL JID/JMTS	Project
Link 11 In-Service Engineering	Link 11	Project
JTIDS In-Service Engineering	JTIDS	Project
MULTOTS Test and Training Tool	MLST3	Project
Defensive C2		
Assessments	Assessments	Project (OPNAV)
Joint Protection Enterprise Network	JPEN	Project (USNORTHCOM)



The C2 Domain

- Individual Program/System acquisition maturities vary
 - Design, Development, Production, Support
- Program focus areas vary
 - Software, Hardware, Tech Refresh, Deployment, ...
- Programs hardware requirements vary
 - PCs, VME, Racks...UPS....Displays
- Individual System Versions deployed Vary
 - not consistent across C2 domain for each platform
- Capability Objectives Evolving
 - C2 Interfaces / Integration in transition
 - C2 components today not the same as tomorrow



Delivering Capabilities – A Paradigm Shift

- We have delivered “boxes” to the warfighters
- How do we institutionalize a “capability” culture in our work force?
- How should PMW 150 organize to effectively provide integrated capabilities?
- How can we translate the answers to these questions into integrated warfighter capabilities?



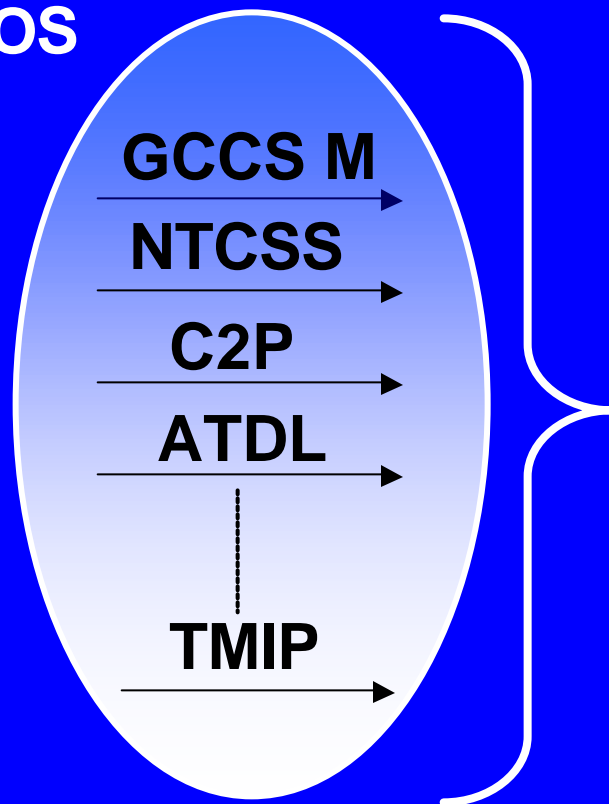
PEO LSI Objectives

- Product Integration
 - Focus on the delivery of “capabilities”
 - Seek areas of commonality
 - Advantages
 - Composability and integrability
 - Economies of scale
 - Reduction of non recurring costs
 - Integrated product suites for warfighters that are easier to train and fight
- Integrated C4I Platforms
 - Platform PMWs to deliver integrated suites of capability
 - Deliver C4ISR solutions



C2 LSI

SOS



TODAY

**20+ Programs/Versions
in PMW 150 have been
managed exclusive of
each other**

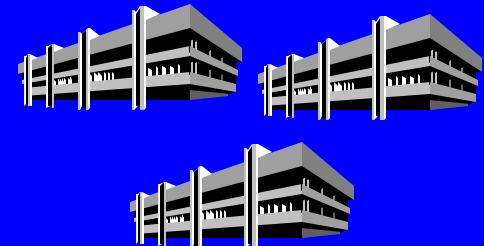


C2

**"Shrink
Wrapped"
C2
Capability**

TOMMORROW

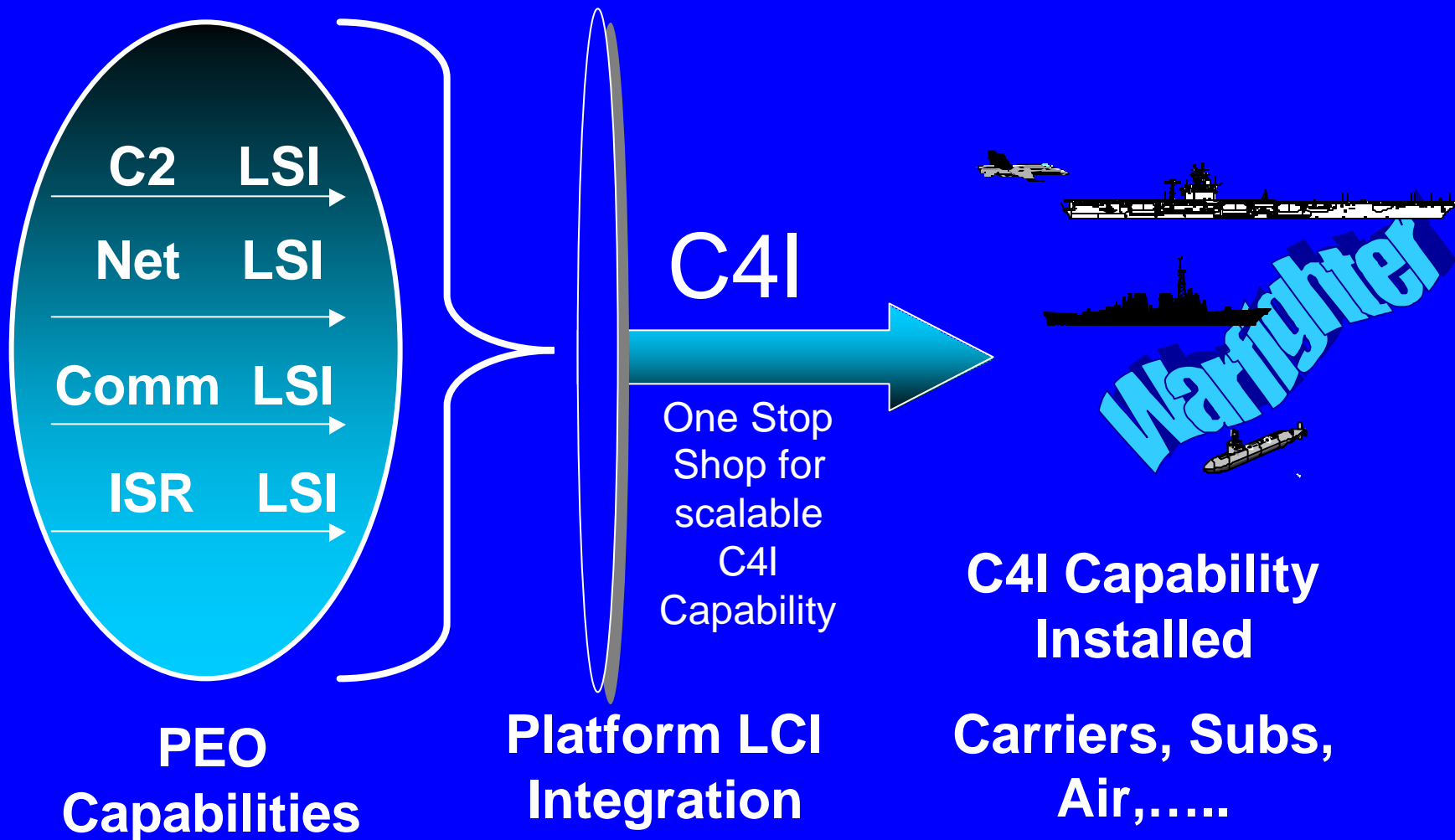
**C2 Capability
delivered to
Platform PMWs**

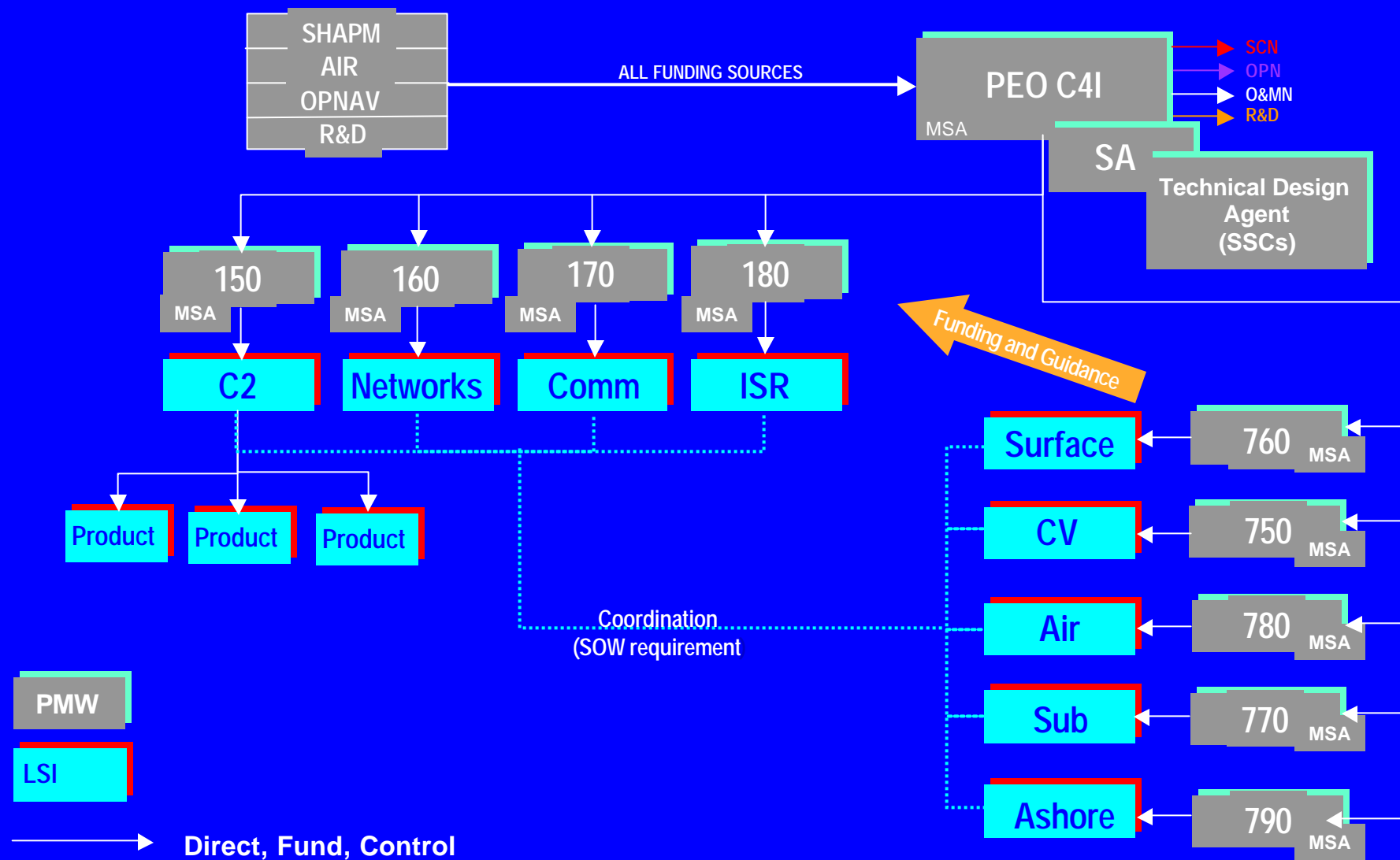


**C2 LSI
Integration**



Platform LSI / LCI







LSI Model

Four key elements:

Program Management

Systems Architect

Technical Design Activity /Trusted Agent

Lead Systems Integrator



Program Management

- PMW 150 / HQ
 - Government
- Roles:
 - Acquisition Management
 - Implementation & Compliance
 - Contracts Coordination and Implementation
 - Title 10 responsibilities
 - PPBES Coordination
 - Program Planning & Execution
 - FORCEnet Roadmap / GIG compliance/ SOA
 - Requirements Documentation
 - JCIDS reflects FORCEnet Objectives
 - Technical Definition required for Contracting
 - Design objectives implement FORCEnet
 - System requirements documented
 - Specifications to be Implemented



C2 System Architect

- PMW 150/SPAWAR 05
 - Government
 - Technical Lead for PMW 150 overall
 - SETA Support
 - Key roles / responsibilities
 - Defines & manages C2 Architectures
 - » OV, TV, SV...
 - » “AS IS” to the “TO BE”
 - Defines C2 Component for FORCEnet
 - Develops / oversees the technical/programmatic “Roadmap” needed for C2 to implement FORCEnet, GIG,
 - PMW Belly Button for Trusted Agent



Trusted Agent

- SPAWAR Systems Centers ...
 - Government
- Technical Resources of Program Mgt & System Architect
 - Defines Architecture
 - Provide Engineering Support
 - Translates Operational Requirements into Design Objectives
 - Defines HSI for C2
 - Support Technical Reviews
 - IV&V of LSI
 - Conduct T&E of C2 Product
 - Conduct Risk Management
 - Oversee Integrated Logistics Support
 - Oversee Installations



Lead Systems Integrator

- Industrial Activity
- Key roles/responsibilities
 - Conducts Systems Engineering across C2 domain
 - Standardizes C2 Product Line
 - Builds artifacts in support of design reviews
 - Designs/Develops C2 products assigned
 - Procures HW/SW from C2 Programs' OEMs
 - Test integrated C2 products
 - Installs/Fleet Support/ISEA of select C2 components
 - Engineers C2 solution compliant with ForceNet / GiG / Joint....



C2 LSI Functional Scope

- Scope areas considered (systems dependent)
 - Design
 - Development
 - Integration
 - Acquisition Engineering Agent / Production Engineering
 - Procure products directly from C2 OEMs
 - Produce C2 integrated system
 - Test of C2 products
 - Install C2 components
 - Provide Life Cycle Support for selected components
 - Act as ISEA for selected C2 components
 - Provide Log's Life Cycle Support for selected components
- Not one size fits all since programs are in various phases and maturity



C2 LSI Product Scope

- Initial (FY07)
 - GCCS-M FOS
- Near Term (FY07+ - **Estimate**)
 - NTCSS /OOMA production installation work
 - TMIP
 - New/emerging product efforts
- Long Term (FY09 - **Estimate**)
 - TDLS
 - CLIP Inc II....
 - C2P/CDLMS refresh (at SSC SD now)
 - NGC2P production / refresh (at SSC SD now)
 - MOS & JSS
 - OPTIONS: other undefined programs use LSI contractor



Items Outside C2 LSI Scope *

- C2 System Architect (SA)
- Tech Authority/Trusted Agent, DT/OT, IV&V functions
- Judiciously selected items
 - Commodity procurements
 - Minimize number of LSI procuring common products
 - Major Acquisition Programs
 - Don't move major efforts in the middle of development to LSI
- All Functional and Platform PMWs in one LSI contract
 - Different domains & Too Large

*** NDIA Recommendations from brief to PEO C4I & Space on LSI**



Acquisition Strategy

- Performance Based
- Products & Services
- Type: IDIQ: CPAF tasks & FFP tasks
- Ceiling: TBD
- Length: Investigating Five Year with options
- Number of Awards: Single award w/ task orders & options
- Minimum Guarantee: First Task Order would fulfill minimum requirement



Acquisition Strategy (cont)

- Full & Open Competition
- LSI must be capable of delivering complex systems at > \$200M/yr
 - Heavy emphasis on management capability
 - EVMS use is routine
 - Engineering organization with depth
 - Proven subcontracts organization
 - Proven *transparent* “make/buy” process
 - CMMI Rating
 - Etc.
- Have step-off options if LSI is not performing



C2 LSI POAM

- Industry Day Regarding RFI 9-Aug-05
- RFI white papers from Industry 26-Aug-05
- Release Draft RFP January 06
- Release Final RFP April 06
- Proposals Due May 06
- Award Contract December 06



What we need from Industry

- Feedback to RFI
- Continued Partnership
- Information regarding contract
 - See SPAWAR eCommerce website:
<https://e-commerce.spawar.navy.mil>

To find out more information regarding PMW150 programs and LSI visit:

<http://enterprise.spawar.navy.mil/>

Look under

“REFERENCE LIBRARY”

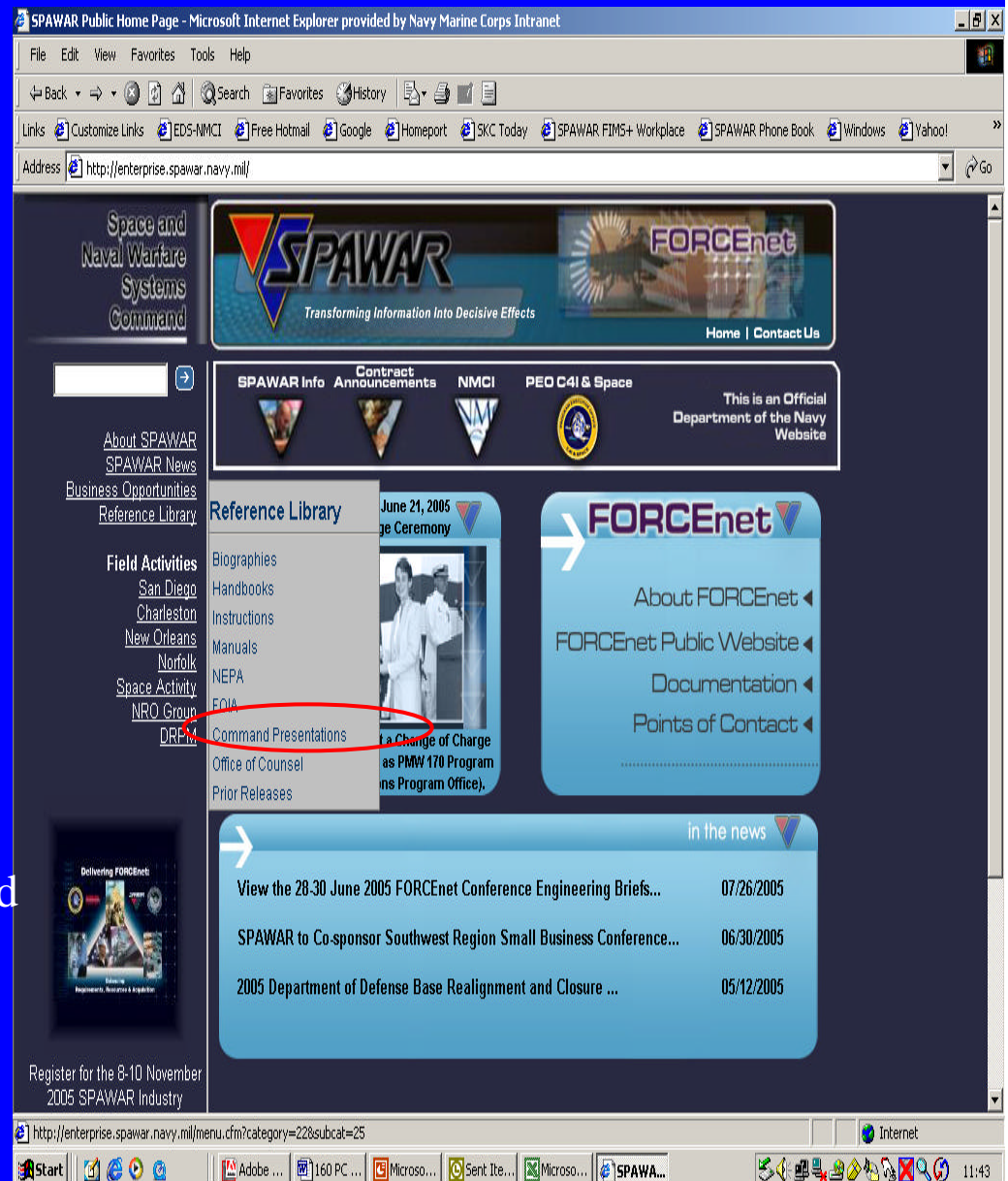
then

“COMMAND PRESENTATION”

then

“PMW150 PROGRAM INFORMATION”.

This website is under construction, but should be populated sometime between 10-19 August 2005.





C2 LSI POCs

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Questions